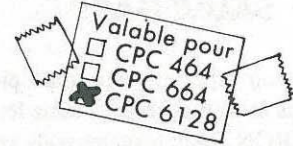


## ELECTRON

Jean-François MAIGNE



*Ce programme est destiné à tous ceux qui, parallèlement à l'informatique, créent des schémas électriques ou électroniques. Il vous permettra de dessiner vos schémas et de les imprimer.*

L'utilisation est très simple car elle fait principalement appel aux touches de fonctions F1 à F6 et aux touches de déplacement du curseur.

### DETAIL DES TOUCHES

**F1** : c'est le mode de déplacement du curseur graphique.

**F2** : c'est le mode trace. Lorsque vous appuyez sur F2, l'ordinateur fixe votre point de départ à l'emplacement du curseur. Vous déplacez alors votre droite jusqu'au point d'arrivée grâce aux touches de déplacement du curseur, puis vous validez par F1 ou F2.

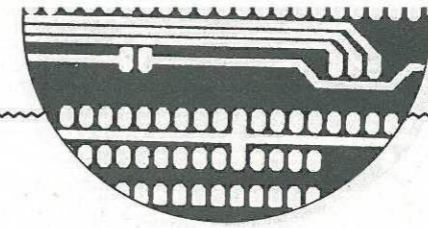
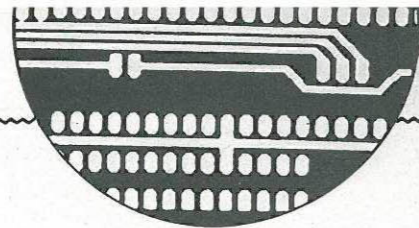
**F3** : c'est le mode qui vous permet de choisir le symbole à tracer.

**F5** : cette fonction vous permet d'afficher un texte à l'écran, la première lettre s'inscrit à l'emplacement du curseur.

**F6** : c'est le menu principal et il se compose des diverses fonctions suivantes :

- **DESSIN EN COURS** : retour au dessin
- **NOUVEAU DESSIN** : permet de changer de dessin avec sauvegarde possible du précédent.
- **LECTURE** : permet de charger un dessin sur la disquette.
- **SAUVEGARDE** : sauve votre dessin en 17 Ko sur la disquette.
- **IMPRESSION** : c'est un vidage d'écran sur l'imprimante avec deux possibilités :
  - grand vidage vertical,
  - petit vidage horizontal.
- **HELP** : c'est une petite notice d'aide à l'utilisation.

SYMB	NOM	DESSIN	OPTIONS
1	RESISTANCE		DROITE GAUCHE HAUT BAS
2	CONDO		DROITE GAUCHE HAUT BAS
3	TRANSISTOR		PNP (P) NPN (N)
4	DIODE		DIRECTION DIODE SENS TRIANGLE
5	AMPLI OP		
6	DIODE ZENER		DIRECTION DIODE SENS TRIANGLE
7	GENERATEUR		
8	MOTEUR		
8	PORTE AND		
10	PORTE OR		
11	CONTACT RELAIS		DROITE GAUCHE HAUT BAS
12	PORTE NAND		
13	PORTE NOR		
14	RELAIS		HAUT BAS
15	POTAR		DROITE GAUCHE HAUT BAS
16	FUSIBLE		DROITE GAUCHE HAUT BAS
17	POINT DE JONCTION		
18	TRANSFO		
19	FLECHE DE U OU DE I		DROITE GAUCHE HAUT BAS
20	BORNES		NUMEROTAGE AUTO OU MANUEL
21	LAMPES		DROITE GAUCHE HAUT BAS
22	BORNES		SANS NUMERO
23	BOBINES		TOUS LES SENS



### SAUVEGARDE

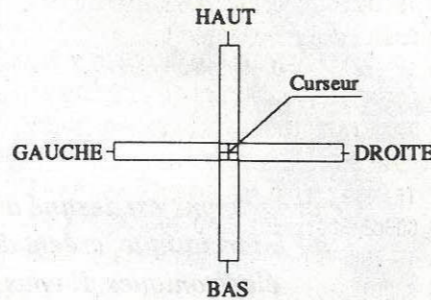
Après avoir tapé le programme principal, vous le sauvegarderez sous le nom ELECTRON.BAS. Ensuite vous sauvegarderez le vidage d'écran en lançant le programme par un RUN, ensuite, lorsque READY s'affichera, vous sauverez le programme de cette façon : SAVE «VIDAGE.BIN»,B,&A000,&A480.

Votre disquette devra contenir également le bankmanager.

### DETAILS POUR LES SYMBOLES

Les options HAUT, BAS, DROITE, GAUCHE correspondent à la future position du symbole par rapport au curseur.

EX :



```

1 ***** >FA
2 *** ** >FB
3 *** ELECTRON (DSAO) ** >FC
4 *** ** >FD
5 *** Jean-francois MAIGNE ** >FE
6 *** JUILLET 1988 ** >FF
7 ***** >FG
8 CALL &BB4E >BA
9 INK 0,0:INK 1,26:PEN 1:BORDER 0 >ZF
10 KEY 139,"mode 2:list 10-29999"+C >MH
HR$(13)
11 ON ERROR GOTO 25000 >QB
18 ***** >LJ
19 '*definition fenetres et symboles >LK
20 ***** >LB
21 DEFINT a-z:MODE 1 >PW
27 'chargement routine ecran >LJ
28 MEMORY &7FFF:LOAD"bankman.bin":C >TB
ALL &8000
29 LOAD"vidage.bin",&A000:CALL &A00 >GN
0
30 WINDOW #2,1,40,1,1:PAPER #2,1:PE >ND
N #2,0:CLS#2
31 WINDOW #1,18,35,3,4:PAPER #1,1:P >HT
EN #1,0
32 SYMBOL AFTER 125 >NJ
33 SYMBOL 125,0,8,8,54,8,8,0,0 >XB
34 SYMBOL 126,32,48,24,12,252,0,0,2 >CH
52
35 SYMBOL 231,0,0,120,252,252,252,1 >CC
20
36 CALL &BB03 >EJ
39 CH1$=CHR$(24):CH2$="">CV
40 CH3$="">CV
41 CH4$="">CV
42 CH5$="">CV
43 PLOT 1,1:DRAW 639,1:DRAW 639,375 >YK
:DRAW 1,375:DRAW 1,1
44 &SCREENCOPY,3,1 >PB
47 ***** >MA
48 '*deplacement curseur* >MB
49 ***** >MC
50 x=320:y=200:PRINT CHR$(23);CHR$( >RN
1);:GOSUB 580
60 PRINT CHR$(23);CHR$(1);:GOSUB 58 >AA
0: MOVE x,y:TAG:PRINT CHR$(125);:GO
TO 89
70 MOVE x1,y1:TAG:PRINT CHR$(125); >CG
80 MOVE x,y:TAG:PRINT CHR$(125); >BP
89 TAGOFF >PE
90 IF x<=-15 THEN x=-15:x1=x >WP
91 IF x>=640 THEN x=640:x1=x >WH
92 IF y<=0 THEN y=0:y1=y >TW
93 IF y>=410 THEN y=410:y1=y >WD
100 IF INKEY(8)=0 AND INKEY(47)=0 T >GY
HEN GOSUB 580:x=x-4:GOTO 70
110 IF INKEY(8)=0 AND INKEY(9)=0 TH >FV
EN GOSUB 580:x=x-8:GOTO 70
120 IF INKEY(8)=0 AND INKEY(9)=-1 T >GT
HEN GOSUB 580:x=x-1:GOTO 70
130 IF INKEY(1)=0 AND INKEY(47)=0 T >GR
HEN GOSUB 580:x=x+4:GOTO 70
140 IF INKEY(1)=0 AND INKEY(9)=0 TH >FN
EN GOSUB 580:x=x+8:GOTO 70
150 IF INKEY(1)=0 AND INKEY(9)=-1 T >GL
HEN GOSUB 580:x=x+1:GOTO 70
160 IF INKEY(2)=0 AND INKEY(47)=0 T >GA
HEN GOSUB 580:y=y-4:GOTO 70
170 IF INKEY(2)=0 AND INKEY(9)=0 TH >FX
EN GOSUB 580:y=y-8:GOTO 70
180 IF INKEY(2)=0 AND INKEY(9)=-1 T >GW
HEN GOSUB 580:y=y-2:GOTO 70
190 IF INKEY(0)=0 AND INKEY(47)=0 T >GZ
HEN GOSUB 580:y=y+4:GOTO 70
200 IF INKEY(0)=0 AND INKEY(9)=0 TH >FL
EN GOSUB 580:y=y+8:GOTO 70
209 IF INKEY(66)=0 THEN STOP >WR
210 IF INKEY(0)=0 AND INKEY(9)=-1 T >GK
HEN GOSUB 580:y=y+2:GOTO 70
211 IF INKEY(14)=0 THEN ch1$="">ZF
ch2$="">ZF
ch3$="">ZF
ch4$="">ZF
ch5$="">ZF
GOSUB 2330:GOSUB 590:GOSUB 580:GOTO
60
212 IF INKEY(12)=0 THEN CALL &BB03: >JX
&SCREENCOPY,3,1:CLS #1:INPUT#1, "Te
xte ?",text$:&SCREENCOPY,1,3:TAG:MO
VE x+3,y:PRINT text$;:TAGOFF
213 IF INKEY(10)=0 THEN X=X+8:Y=Y-5 >CC
:PRINT CHR$(23);CHR$(0);:PLOT X,Y:P
LOT X+1,Y+1:PLOT X+1,Y-1:PLOT X-1,Y
+1:PLOT X-1,Y-1:PRINT CHR$(23);CHR$(
1);:X=X-8:Y=Y+5
400 IF INKEY(5)=0 THEN TAG: MOVE x, >XA
y:PRINT CHR$(125);:TAGOFF:&SCREENCO
PY,3,1:ch1$="">CC
ch2$="">CC
ch3$="">CC
ch4$="">CC
ch5$="">CC
GOSUB 2330:PRINT CHR$(23);CHR$(0);:
GOSUB 730:PRINT CHR$(23);CHR$(1);:G
OSUB 580:GOTO 70
504 IF INKEY(4)=0 THEN ch1$="">UC
ch2$="">UC
ch3$="">UC
ch4$="">UC
ch5$="">UC
GOSUB 2330:GOTO 1400
510 GOTO 100 >YD
569 ***** >UA
570 '*fonction trace* >TC
571 ***** >TD
580 x1=x:y1=y:RETURN >RL
590 PRINT CHR$(23);CHR$(1);:TAG:MOV >NE
E x,y:PRINT CHR$(125);:TAGOFF
610 PLOT x+8,y-5,1 >MT
620 ax=x+8:bx=y-5 >MT
640 IF INKEY(8)=0 THEN GOSUB 720:ax >TG
=ax-1:GOTO 700
650 IF INKEY(1)=0 THEN GOSUB 720:ax >RG
=ax+1:GOTO 700
660 IF INKEY(2)=0 THEN GOSUB 720:bx >TF
=bx-2:GOTO 700
670 IF INKEY(0)=0 THEN GOSUB 720:bx >TC
=bx+2:GOTO 700
680 IF INKEY(13)=0 THEN ch1$=CHR$(2 >WK
4):ch2$="">WK
ch3$="">WK
ch4$="">WK
ch5$="">WK
GOSUB 2330:PRINT CHR$(23);CHR$(0);:
PLOT x+8,y-5:x=ax-8:y=bx+5:DRAW x+
8,y-5:PRINT CHR$(23);CHR$(1);:RETUR
N
685 IF INKEY(14)=0 THEN x=ax-8:y=bx >EC
+5
690 GOTO 640 >AB
700 PLOT x+8,y-5:DRAW ax,bx >WW
710 PLOT x+8,y-5:DRAW xa,xb:GOTO 64 >EA
0
720 xa=ax:xb=bx:RETURN >UM
724 ***** >TD
725 '*fonction efface* >TE
726 ***** >TF
730 MOVE x,y:TAG:PRINT " "; >WX
740 IF INKEY(8)=0 THEN x=x-1 >WT
750 IF INKEY(8)=0 AND INKEY(9)=0 TH >LY
EN x=x-10
760 IF INKEY(1)=0 THEN x=x+1 >WK
770 IF INKEY(1)=0 AND INKEY(9)=0 TH >LQ
EN x=x+10
780 IF INKEY(0)=0 THEN y=y+1 >WN
790 IF INKEY(0)=0 AND INKEY(9)=0 TH >LU
EN y=y+10
800 IF INKEY(2)=0 THEN y=y-1 >WK
810 IF INKEY(2)=0 AND INKEY(9)=0 TH >LQ
EN y=y-10
820 MOVE x,y >GB
830 TAG >TK
840 PRINT CHR$(143); >NG
850 IF INKEY(13)=0 THEN MOVE x,y:TA >KT
G:PRINT CHR$(125);:TAGOFF:CH1$=CHR$(
24):CH2$="">AC
CH3$="">AC
CH4$="">AC
CH5$="">AC
GOSUB 2330:RETURN
855 PLOT x,y,1 >WH
880 GOTO 730 >AC
887 ***** >UE
888 '*gestion des symboles* >UF
889 ***** >UG
900 CLS #1 >EG
901 IF symb=1 THEN 1000 >QE
910 IF symb=2 THEN 1100 >QG
911 IF symb=3 THEN 1200 >QK
912 IF symb=4 THEN dz=0 :GOTO 1300 >AR
913 IF symb=5 THEN 1700 >QV
914 IF symb=6 THEN 1710 >QY
915 IF symb=7 THEN GOTO 1800 >VW
916 IF symb=8 THEN 1850 >QH
917 IF symb=9 THEN 2501 >QD
918 IF symb=10 THEN 2501 >RN
919 IF symb=11 THEN 1860 >RY
920 IF symb=12 THEN 2600 >RH
921 IF symb=13 THEN 2610 >RL
922 IF symb=14 THEN 2650 >RT
923 IF symb=15 THEN 1000 >RG
924 IF symb=16 THEN 1920 >RW
925 IF symb=17 THEN 1960 >RC
926 IF symb=18 THEN 3050 >RW
927 IF symb=19 THEN 5000 >RV
928 IF symb=20 THEN 4000 >RL
929 IF symb=21 THEN 4030 >RR
930 IF symb=22 THEN 4021 >RJ
931 IF symb=23 THEN 5100 >RK
999 ***** >UH
1000 '*definition des symboles* >XD
1001 ***** >XE
1010 *****resistance***** >XE
1011 TAG:MOVE x,y:PRINT CHR$(125);: >PN
TAGOFF:PRINT CHR$(23);CHR$(0);
1012 x=x+8:y=y-5 >LM
1020 PRINT #1, "direction ?" >ZW
1030 IF INKEY(0)=0 AND INKEY(8)=-1 >VG
AND INKEY(1)=-1 AND INKEY(2)=-1 THE
N &SCREENCOPY,1,3:PLOT X,Y:DRAW x,y
+10:DRAW x+5,y+10:DRAW x+5,y+40:DR
AW x-5,y+40:DRAW x-5,y+10:DRAW x,y+1
0:PLOT x,y+40:DRAW x,y+50:rv=1:GOTO
1040
1031 IF INKEY(2)=0 AND INKEY(0)=-1 >VB
AND INKEY(8)=-1 AND INKEY(1)=-1 THE
N &SCREENCOPY,1,3:PLOT x,y:DRAW x,y
-10:DRAW x+5,y-10:DRAW x+5,y-40:DR
AW x-5,y-40:DRAW x-5,y-10:DRAW x,y-1
0:PLOT x,y-40:DRAW x,y-50:rv=2:GOTO
1040
1032 IF INKEY(1)=0 AND INKEY(8)=-1 >VL
AND INKEY(0)=-1 AND INKEY(2)=-1 THE
N &SCREENCOPY,1,3:PLOT x,y:DRAW x+1

```

# ABONNEMENT



## AMSTAR CPC

Ci-joint un chèque libellé à l'ordre de : Editions SORACOM - La Haie de Pan - 35170 Bruz

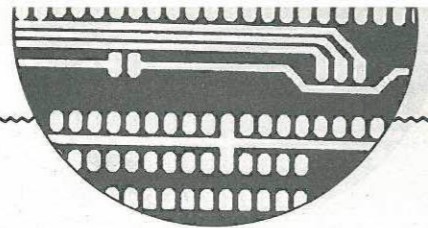
11 numéros ..... 210 F  
(prix applicable au 1er mars 1989)

Nom : \_\_\_\_\_ Prénom : \_\_\_\_\_  
 Adresse : \_\_\_\_\_  
 Code postal : \_\_\_\_\_ Ville : \_\_\_\_\_  
 Date : \_\_\_\_\_ Signature \_\_\_\_\_

envoi par avion : + 120 F

ATTENTION ! LES ABONNEMENTS NE SONT PAS RETROACTIFS.

Pour les étrangers le règlement se fait soit : par eurochèque (numéro de carte inscrit au dos) - par mandat international - par virement CCP 794 17 V Rennes.



```

0,y:DRAW x+10,y+5:DRAW x+40,y+5:DRA
W x+40,y-5:DRAW x+10,y-5:DRAW x+10,
y:PLOT x+40,y:DRAW x+50,y:rv=3:GOTO
1040
1033 IF INKEY(8)=0 AND INKEY(1)=-1 >VF
AND INKEY(0)=-1 AND INKEY(2)=-1 THE
N uSCREENCOPY,1,3:PLOT X,Y:DRAW x-1
0,y:DRAW x-10,y+5:DRAW x-40,y+5:DRA
W x-40,y-5:DRAW x-10,y-5:DRAW x-10,
y:PLOT x-40,y:DRAW x-50,y:rv=4:GOTO
1040
1034 GOTO 1030 >LK
1035 PLOT x+5,y+25:DRAW x+15,y+25:P >KF
LOT x+5,y+25:DRAW x+9,y+29:PLOT x+5
,y+25:DRAW x+9,y+22:RETURN
1036 PLOT x+5,y-25:DRAW x+15,y-25:P >KU
LOT x+5,y-25:DRAW x+9,y-29:PLOT x+5
,y-25:DRAW x+9,y-21:RETURN
1037 PLOT x+25,y+5:DRAW x+25,y+15:P >MK
LOT x+25,y+5:DRAW x+21,y+10:PLOT x+
25,y+5:DRAW x+28,y+10:RETURN
1038 PLOT x-25,y+5:DRAW x-25,y+15:P >MA
LOT x-25,y+5:DRAW x-21,y+10:PLOT x-
25,y+5:DRAW x-29,y+10:RETURN
1040 IF symb=15 THEN ON rv GOSUB 10 >UT
35,1036,1037,1038
1041 x=x-8:y=y+5:PRINT CHR$(23);CHR >XY
$(1);CH1$=CHR$(24):CH2$="" :CH3$=""
:CH4$="" :CH5$="" :GOSUB 2330:GOTO 60
1100 '*****condensateur***** >XE
1110 PRINT #1, "direction ?" >ZW
1111 TAG:MOVE x,y:PRINT CHR$(125);: >HV
TAGOFF :PRINT CHR$(23);CHR$(0);:x=x
+8:y=y-5
1120 IF INKEY(0)=0 AND INKEY(8)=-1 >RM
AND INKEY(1)=-1 AND INKEY(2)=-1 THE
N uSCREENCOPY,1,3:PLOT X,Y:DRAW x,y
+10:PLOT x-10,y+10:DRAW x+10,y+10:P
LOT x-10,y+15:DRAW x+10,y+15:PLOT x
,y+15:DRAW x,y+25:PLOT x,y+10:GOTO
1199
1130 IF INKEY(2)=0 AND INKEY(8)=-1 >TC
AND INKEY(1)=-1 AND INKEY(0)=-1 THE
N uSCREENCOPY,1,3: PLOT X,Y:DRAW x,
y-10:PLOT x-10,y-10:DRAW x+10,y-10:
PLOT x-10,y-16:DRAW x+10,y-16:PLOT
x,y-16:DRAW x,y-26:PLOT x,y-10:GOTO
1199
1140 IF INKEY(1)=0 AND INKEY(8)=-1 >TQ
AND INKEY(0)=-1 AND INKEY(2)=-1 THE
N uSCREENCOPY,1,3: PLOT X,Y:DRAW x+
10,y:PLOT x+10,y+10:DRAW x+10,y-10:

```

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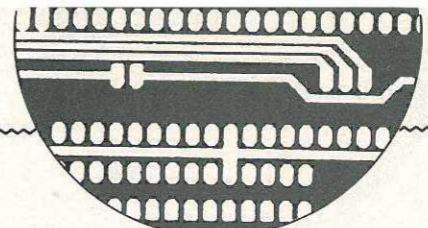
PLOT x+17,y+10:DRAW x+17,y-10:PLOT
x+17,y:DRAW x+27,y:PLOT x+10,y:GOTO
1199
1150 IF INKEY(8)=0 AND INKEY(1)=-1 >RR
AND INKEY(0)=-1 AND INKEY(2)=-1 THE
N uSCREENCOPY,1,3:PLOT X,Y:DRAW x-1
0,y:PLOT x-10,y+10:DRAW x-10,y-10:P
LOT x-17,y+10:DRAW x-17,y-10:PLOT x
-17,y:DRAW x-27,y:PLOT x-10,y:GOTO
1199
1160 GOTO 1120 >LK
1199 PRINT CHR$(23);CHR$(1);x=x-8:y >VT
=y+5:CH1$=CHR$(24):CH2$="" :CH3$=""
:CH4$="" :CH5$="" :GOSUB 2330:GOTO 60
1200 TAG:MOVE x,y:PRINT CHR$(125);: >AQ
TAGOFF:x=x+8:y=y-5
1201 PRINT CHR$(23);CHR$(0) >VT
1210 '*****transistor***** >IG
1211 PRINT #1, " NPN (N)" >UH
1212 PRINT #1, " PNP (P)" >UN
1213 IF INKEY(46)=0 THEN uSCREENCOP >FH
Y,1,3: PLOT X+54,Y-12:DRAW X+49,Y-1
3:PLOT X+54,Y-12:DRAW X+52,Y-9:GOTO
1220
1214 IF INKEY(27)=0 THEN uSCREENCOP >BG
Y,1,3:PLOT X+40,Y-6:DRAW X+45,Y-11:
PLOT X+40,Y-6:DRAW X+47,Y-7:GOTO 12
20
1215 GOTO 1213 >MD
1220 PLOT x,y:DRAW x+40,y >UG
1221 PLOT x+40,y+10:DRAW x+40,y-10 >BW
1222 PLOT x+40,y+6:DRAW x+54,y+12:D >RY
RAW x+54,y+32
1223 PLOT x+40,y-6:DRAW x+54,y-12:D >RF
RAW x+54,y-32
1224 DEG >YA
1226 FOR f=0 TO 360 STEP 6 >RT
1227 PLOT (x+40)+20*COS(f),y+20*SIN >MH
(f):NEXT
1230 PRINT CHR$(23);CHR$(1);:x=x-8: >XL
y=y+5:CH1$=CHR$(24):CH2$="" :CH3$=""
:CH4$="" :CH5$="" :GOSUB 2330:GOTO 60
1300 '*****diode sens indirect d >XG
roite*****
1301 TAG:MOVE x,y:PRINT CHR$(125);: >XY
TAGOFF:PRINT CHR$(23);CHR$(0);:x=x+
8:y=y-5:GOTO 1350
1303 PLOT x,y:DRAW x+20,y >UG
1304 PLOT x+20,y+8:DRAW x+20,y-8:IF >DC
dz=1 THEN DRAW x+25,y-8
1305 PLOT x+20,y:DRAW x+38,y+8 >YU
1306 DRAW x+38,y-8:DRAW x+20,y >YB

```

```

1307 PLOT x+38,y:DRAW x+60,y:IF i=1 >PB
THEN x=x+60
1308 PRINT CHR$(23);CHR$(1);:x=x-8: >XT
y=y+5:CH1$=CHR$(24):CH2$="" :CH3$=""
:CH4$="" :CH5$="" :GOSUB 2330:GOTO 60
1309 '*****diode sens indirect g >YF
auche*****
1310 x=x-60:GOTO 1303 >PQ
1315 '*****diode sens indirect h >YC
aut*****
1320 PLOT x,y:DRAW x,y+20:PLOT x-8, >GD
y+20:DRAW x+8,y+20:DRAW x,y+38:DRAW
x-8,y+20
1321 PLOT x-8,y+38:DRAW x+8,y+38:IF >XL
dz=1 THEN PLOT x-8,y+38:DRAW x-8,y
+33
1322 PLOT x,y+38:DRAW x,y+60:IF i=1 >PA
THEN y=y+60
1323 PRINT CHR$(23);CHR$(1);:x=x-8: >XP
y=y+5:CH1$=CHR$(24):CH2$="" :CH3$=""
:CH4$="" :CH5$="" :GOSUB 2330:GOTO 60
1328 '*****diode sens indirect b >YG
as*****
1329 y=y-60:GOTO 1315 >PG
1330 '*****diode sens direct dro >XK
ite*****
1331 PLOT x,y:DRAW x-20,y >UK
1332 PLOT x-20,y+8:DRAW x-20,y-8:IF >XP
dz=1 THEN PLOT x-20,y+8:DRAW x-25,
y+8
1333 PLOT x-20,y:DRAW x-38,y+8 >YZ
1334 DRAW x-38,y-8:DRAW x-20,y >YG
1335 PLOT x-38,y:DRAW x-60,y:x=x-60 >YH
:IF i=1 THEN x=x+60
1336 PRINT CHR$(23);CHR$(1);:x=x-8: >XU
y=y+5:CH1$=CHR$(24):CH2$="" :CH3$=""
:CH4$="" :CH5$="" :GOSUB 2330:GOTO 60
1337 '*****diode sens direct gau >YG
che*****
1338 x=x-60:GOTO 1330 >PB
1339 '*****diode sens direct hau >YJ
t*****
1340 PLOT x,y:DRAW x,y-20:PLOT x-8, >HH
y-20:DRAW x+8,y-20:DRAW x,y-38:DRAW
x-8,y-20
1341 PLOT x-8,y-38:DRAW x+8,y-38:PL >HR
OT x,y-38:DRAW x,y-60:IF dz=1 THEN
PLOT x+8,y-38:DRAW x+8,y-33
1342 IF i=0 THEN y=y-60 >QE
1344 PRINT CHR$(23);CHR$(1);:x=x-8: >XT
y=y+5:CH1$=CHR$(24):CH2$="" :CH3$=""
:CH4$="" :CH5$="" :GOSUB 2330:GOTO 60

```



```

1348 '*****diode sens direct bas >YJ
*****
1349 y=y-60:GOTO 1340 >PG
1350 PRINT #1,"Direction ?" >YM
1351 IF INKEY(1)=0 AND INKEY(0)=-1 >KF
AND INKEY(2)=-1 AND INKEY(8)=-1 THE
N i=0:GOTO 1361
1352 IF INKEY(8)=0 AND INKEY(0)=-1 >XM
AND INKEY(2)=-1 AND INKEY(1)=-1 THE
N i=1:GOTO 1365
1353 IF INKEY(0)=0 AND INKEY(1)=-1 >XH
AND INKEY(2)=-1 AND INKEY(8)=-1 THE
N i=0:GOTO 1370
1354 IF INKEY(2)=0 AND INKEY(1)=-1 >XK
AND INKEY(0)=-1 AND INKEY(8)=-1 THE
N i=1:GOTO 1375
1360 GOTO 1351 >MH
1361 PRINT #1,"Sens ?":FOR temp=0 T >QJ
O 1000:NEXT
1362 IF INKEY(1)=0 THEN uSCREENCOP >CA
,1,3:x=x+60:GOTO 1330
1363 IF INKEY(8)=0 THEN uSCREENCOP >UE
,1,3:GOTO 1303
1364 GOTO 1362 >ND
1365 PRINT #1,"Sens ?":FOR temp=0 T >QN
O 1000:NEXT
1366 IF INKEY(1)=0 THEN uSCREENCOP >CH
,1,3:x=x+60:GOTO 1337
1367 IF INKEY(8)=0 THEN uSCREENCOP >UQ
,1,3:GOTO 1309
1368 GOTO 1366 >PB
1370 PRINT #1,"Sens ?":FOR temp=0 T >QJ
O 1000:NEXT
1371 IF INKEY(0)=0 THEN uSCREENCOP >UY
,1,3:GOTO 1315
1372 IF INKEY(2)=0 THEN uSCREENCOP >CP
,1,3:y=y+60:GOTO 1339
1373 GOTO 1371 >ND
1375 PRINT #1,"Sens ?":FOR temp=0 T >QP
O 1000:NEXT
1376 IF INKEY(0)=0 THEN uSCREENCOP >UH
,1,3:GOTO 1328
1377 IF INKEY(2)=0 THEN uSCREENCOP >CV
,1,3:y=y+60:GOTO 1348
1378 GOTO 1376 >PD
1398 '***** >ZD
1399 'menu principal >ZE
1400 '***** >XH
1401 uSCREENCOPY,3,1 >QK
1410 uSCREENCOPY,2,1 :h=5:l1=0:hp=1 >FU
O
1420 WINDOW #4,6,24,3,14:PAPER #4,1 >RM

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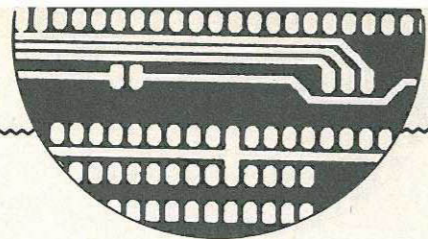
:PEN #4,0:CLS #4
1421 c1$=CHR$(24):c2$="" :c3$="" :c4$ >FP
="" :c5$="" :c6$="" :GOSUB 1450
1430 LOCATE #4,1,1:PRINT #4, " >YZ
MENU:" :LOCATE #4,1,2:PRINT #4, "
";
1440 LOCATE #4,1,3:PRINT #4, " >LH
";
1441 LOCATE #4,1,11:PRINT #4, " >BW
";
1447 ON li GOSUB 1450,1460,1470,148 >LT
0,1490,1491
1448 IF li=6 THEN 1510 >PE
1449 li=li+1:GOTO 1447 >QB
1450 LOCATE #4,1,4:PRINT #4:LOCATE >AH
#4,1,5:PRINT #4, " ";C1$;"Dessin en
cours ";c1$:RETURN
1460 LOCATE #4,1,6:PRINT #4, " ";c2$ >TM
;"Nouveau dessin ";C2$:RETURN
1470 LOCATE #4,1,7:PRINT #4, " ";C3$ >NR
;"Lecture ";c3$:RETURN
1480 LOCATE #4,1,8:PRINT #4, " ";C4$ >QH
;"Sauvegarde ";c4$:RETURN
1490 LOCATE #4,1,9:PRINT #4, " ";C5$ >QZ
;"Impression ";c5$:RETURN
1491 LOCATE #4,1,10:PRINT #4, " ";C6 >LE
";" :c6$:RETURN
1510 IF INKEY(9)=0 THEN 2000 >VX
1520 IF INKEY(2)=0 THEN hp=h:h+1 >BD
1521 IF INKEY(2)=0 AND h>10 THEN h= >BD
5
1522 IF INKEY(2)=0 THEN GOTO 1540 >ZU
1530 IF INKEY(0)=0 THEN hp=h:h-1 >BE
1531 IF INKEY(0)=0 AND h<5 THEN h= >BP
10
1532 IF INKEY(0)=0 THEN GOTO 1540 >ZT
1533 GOTO 1510 >MG
1540 IF h=5 AND hp=10 THEN c1$=CHR$ >BR
(24):c6$="" :GOSUB 1450:GOSUB 1491:G
OTO 1510
1541 IF h=5 AND hp=6 THEN c1$=CHR$ >ZA
(24):c2$="" :GOSUB 1460:GOSUB 1450:G
OTO 1510
1550 IF h=6 AND hp=5 THEN c1$="" :c2 >ZA
$=CHR$(24):GOSUB 1450:GOSUB 1460:G
OTO 1510
1551 IF h=6 AND hp=7 THEN c2$=CHR$ >ZH
(24):c3$="" :GOSUB 1470:GOSUB 1460:G
OTO 1510
1560 IF h=7 AND hp=6 THEN c2$="" :c3 >ZH
$=CHR$(24):GOSUB 1460:GOSUB 1470:G
OTO 1510

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```

1561 IF h=7 AND hp=8 THEN c3$=CHR$ >AG
(24):c4$="" :GOSUB 1480:GOSUB 1470:G
OTO 1510
1570 IF h=8 AND hp=7 THEN c3$="" :c4 >AG
$=CHR$(24):GOSUB 1470:GOSUB 1480:G
OTO 1510
1571 IF h=8 AND hp=9 THEN c5$="" :c4 >AP
$=CHR$(24):GOSUB 1490:GOSUB 1480:G
OTO 1510
1580 IF h=9 AND hp=8 THEN c4$="" :c5 >AP
$=CHR$(24):GOSUB 1480:GOSUB 1490:G
OTO 1510
1581 IF h=9 AND hp=10 THEN c6$="" :c >BK
5$=CHR$(24):GOSUB 1491:GOSUB 1490:G
OTO 1510
1590 IF h=10 AND hp=9 THEN c5$="" :c >BH
6$=CHR$(24):GOSUB 1490:GOSUB 1491:G
OTO 1510
1591 IF h=10 AND hp=5 THEN c1$="" :c >BW
6$=CHR$(24):GOSUB 1491:GOSUB 1450:G
OTO 1510
1592 GOTO 1540 >NE
1600 GOTO 1540 >ME
1700 '***** ampli op ***** >YA
1701 TAG:MOVE x,y:PRINT CHR$(125);: >KN
TAGOFF:PRINT CHR$(23);CHR$(0);:x=x+
8:y=y-5:uSCREENCOPY,1,3
1702 PLOT x,y:DRAW x+20,y >UK
1703 DRAW x+20,y+10:DRAW x+60,y-10: >GW
DRAW x+20,y-30:DRAW x+20,y
1704 PLOT x,y-20:DRAW x+20,y-20 >ZH
1705 PLOT x+60,y-10:DRAW x+80,y-10 >BM
1706 x=x-8:y=y+5:PRINT CHR$(23);CHR >XG
$(1);CH1$=CHR$(24):CH2$="" :CH3$=""
:CH4$="" :CH5$="" :GOSUB 2330:GOTO 60
1710 '***** Diode zener ***** >YB
1720 dz=1 :GOTO 1300 >NT
1799 '***** generateur ***** >ZJ
1800 TAG:MOVE x,y:PRINT CHR$(125);: >KN
TAGOFF:PRINT CHR$(23);CHR$(0);:x=x+
8:y=y-5:uSCREENCOPY,1,3
1811 PLOT x,y:DRAW x,y+80 >UT
1812 FOR gen=0 TO 360 STEP 4 >UL
1813 DEG >YE
1814 PLOT x+15*COS(gen), (y+40)+15*S >KB
IN(gen)
1815 NEXT gen >PA
1830 x=x-8:y=y+5:PRINT CHR$(23);CHR >XE
$(1);CH1$=CHR$(24):CH2$="" :CH3$=""
:CH4$="" :CH5$="" :GOSUB 2330:GOTO 60
1850 '***** moteurs ***** >YG
1851 TAG:MOVE x,y:PRINT CHR$(125);: >KV

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TAGOFF:PRINT CHR$(23);CHR$(0);:x=x+
8:y=y-5:USCREENCOPY,1,3
1852 PLOT x,y:DRAW x,y+25:PLOT x,y+
55:DRAW x,y+80
1853 FOR mot=0 TO 360 STEP 4 >UQ
1854 DEG >YK
1855 PLOT x+15*COS(mot),(y+40)+15*S
IN(mot) >LW
1856 NEXT mot >RH
1857 TAG:MOVE x-6,y+45:PRINT "M";T >JG
AGOFF
1858 x=x-8:y=y+5:PRINT CHR$(23);CHR
$(1);:CH1$=CHR$(24):CH2$="":CH3$="
:CH4$="":CH5$="":GOSUB 2330:GOTO 60
1860 '***** interrupteurs ***** >YH
1861 TAG:MOVE x,y:PRINT CHR$(125);: >HV
TAGOFF:PRINT CHR$(23);CHR$(0);:x=x+
8:y=y-5
1862 GOTO 1900 >ME
1863 PLOT x,y:DRAW x+20,y:DRAW x+40 >YF
,y+10:PLOT x+40,y:DRAW x+60,y:RETUR
N
1864 PLOT x,y:DRAW x,y+20:DRAW x-10 >YJ
,y+40:PLOT x,y+40:DRAW x,y+60:RETUR
N
1865 x=x-8:y=y+5:PRINT CHR$(23);CHR
$(1);:CH1$=CHR$(24):CH2$="":CH3$="
:CH4$="":CH5$="":GOSUB 2330:GOTO 60
1900 CLS #1:PRINT #1,"Direction ?" >EE
1901 IF INKEY(1)=0 AND INKEY(8)=-1 >AX
AND INKEY(0)=-1 AND INKEY(2)=-1 THE
N USCREENCOPY,1,3:GOSUB 1863:GOTO 1
865
1902 IF INKEY(8)=0 AND INKEY(1)=-1 >CZ
AND INKEY(0)=-1 AND INKEY(2)=-1 THE
N USCREENCOPY,1,3:x=x-60:GOSUB 1863
:x=x+60:GOTO 1865
1903 IF INKEY(0)=0 AND INKEY(8)=-1 >AA
AND INKEY(1)=-1 AND INKEY(2)=-1 THE
N USCREENCOPY,1,3:GOSUB 1864:GOTO 1
865
1904 IF INKEY(2)=0 AND INKEY(8)=-1 >CG
AND INKEY(1)=-1 AND INKEY(0)=-1 THE
N USCREENCOPY,1,3:y=y-60:GOSUB 1864
:y=y+60:GOTO 1865
1910 GOTO 1901 >HK
1920 '***** fusibles ***** >YE
1922 TAG:MOVE x,y:PRINT CHR$(125);: >HT
TAGOFF:PRINT CHR$(23);CHR$(0);:x=x+
8:y=y-5
1924 CLS #1:PRINT #1,"Direction ?" >EL
1926 IF INKEY(0)=0 THEN USCREENCOPY >PG

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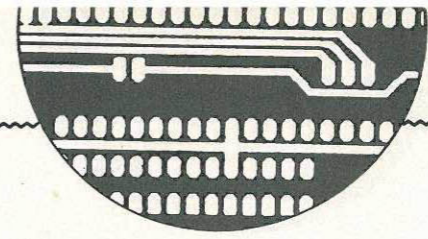
,1,3:PLOT x,y:DRAW x,y+50:PLOT x+5,
y+10:DRAW x-5,y+10:DRAW x-5,y+40:DR
AW x+5,y+40:DRAW x+5,y+10:GOTO 1950
1928 IF INKEY(2)=0 THEN USCREENCOPY >PZ
,1,3:PLOT x,y:DRAW x,y-50:PLOT x+5,
y-10:DRAW x-5,y-10:DRAW x-5,y-40:DR
AW x+5,y-40:DRAW x+5,y-10:GOTO 1950
1930 IF INKEY(1)=0 THEN USCREENCOPY >PC
,1,3:PLOT x,y:DRAW x+50,y:PLOT x+10
,y+5:DRAW x+40,y+5:DRAW x+40,y-5:DR
AW x+10,y-5:DRAW x+10,y+5:GOTO 1950
1932 IF INKEY(8)=0 THEN USCREENCOPY >PA
,1,3:PLOT x,y:DRAW x-50,y:PLOT x-10
,y+5:DRAW x-40,y+5:DRAW x-40,y-5:DR
AW x-10,y-5:DRAW x-10,y+5:GOTO 1950
1949 GOTO 1926 >PJ
1950 x=x-8:y=y+5:PRINT CHR$(23);CHR
$(1);:CH1$=CHR$(24):CH2$="":CH3$="
:CH4$="":CH5$="":GOSUB 2330:GOTO 60
1960 '***** point de jonction ***** >YJ
1965 USCREENCOPY,1,3 >QB
1970 TAG:MOVE x,y:PRINT CHR$(125);: >PG
TAGOFF:PRINT CHR$(23);CHR$(3);
1971 TAG:MOVE x+3,y+3:PRINT CHR$(23 >PD
1);:TAGOFF
1981 PRINT CHR$(23);CHR$(1);:CH1$=C >AV
HR$(24):CH2$="":CH3$="":CH4$="":CH5
$="":GOSUB 2330:GOTO 60
1997 '***** >ZJ
****
1998 '*** gestion du menu principal >ZK
***
1999 '***** >AA
****
2000 IF h=5 THEN 2050 >NQ
2005 IF h=6 THEN 2100 >NT
2010 IF h=7 THEN 2150 >NV
2015 IF h=8 THEN 2200 >NX
2020 IF h=9 THEN 2250 >NZ
2025 IF h=10 THEN GOSUB 21000:GOSUB >CJ
3000:ch1$=CHR$(24):ch5$="":PEN 1:P
APER 0:GOSUB 2330:GOTO 60
2030 GOTO 2000 >LE
2050 MODE 1:GOSUB 3000:USCREENCOPY, >WZ
1,3:TAG:MOVE x,y:PRINT CHR$(125);:T
AGOFF:ch1$=CHR$(24):ch5$="":GOSUB 2
330:GOTO 60
2055 END >ZA
2100 WINDOW 1,40,17,25:PAPER 1:PEN >XJ
0:CLS:LOCATE 1,4:PRINT " Sauvegard
e circuit precedent (O/N)";
2105 IF INKEY(34)=0 THEN CLS:CAT:LO >DU

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CATE 4,25:CALL &BBO3:INPUT "Nom du
circuit :",circ$:MODE 1:USCREENCOPY
,1,3:TAG:MOVE x,y:PRINT CHR$(125);:
TAGOFF:SAVE circ$,b,&C000,&4000:MOD
E 1:GOTO 30
2110 IF INKEY(46)=0 THEN WINDOW 1,4 >MB
0,1,25:PAPER 0:PEN 1:CLS:USCREENCO
P Y,3,1:ch1$=CHR$(24):ch5$="":GOSUB
3000:GOSUB 2330:GOTO 30
2120 GOTO 2105 >MA
2150 WINDOW 1,40,17,25:PAPER 1:PEN >BJ
0:CLS:CAT:LOCATE 4,25:CALL &BBO3:IN
PUT "Nom du circuit :",circ$:MODE 1
:LOAD circ$,&C000:GOSUB 3000:ch1$=C
HR$(24):ch5$="":PEN 1:PAPER 0:GOSUB
2330:GOTO 60
2155 END >ZB
2200 WINDOW 1,40,17,25:PAPER 1:PEN >MT
0:CLS:CAT
2205 CALL &BBO3:LOCATE 4,25:INPUT " >JK
Nom du circuit :",circ$
2206 IF circ$="" THEN 2200 >RF
2210 MODE 1:USCREENCOPY,1,3:TAG:MOV >XV
E x,y:PRINT CHR$(125);:TAGOFF:SAVE
circ$,b,&C000,&4000:GOSUB 3000:ch1$
=CHR$(24):ch5$="":PEN 1:PAPER 0:GOS
UB 2330:GOTO 60
2250 USCREENCOPY,1,3:TAG:MOVE x,y:P >MX
RINT CHR$(125);:TAGOFF:USCREENCOPY,
3,1:GOSUB 10000:GOTO 1400
2330 PRINT #2," ";ch1$;" DEPL. "; >TE
ch1$;ch2$;" TRACE ";CH2$;CH3$;" SYM
BOL ";CH3$;CH4$;" EFFACE ";CH4$;CH5
$;" MENU ";CH5$;:RETURN
2500 '***** portes logiques ***** >XK
2501 '***** portes and,or,nand,nor >YA
*****
2502 TAG:MOVE x,y:PRINT CHR$(125);: >KN
TAGOFF:PRINT CHR$(23);CHR$(0);:x=x+
8:y=y-5:USCREENCOPY,1,3
2503 PLOT x,y:DRAW x+20,y >UK
2504 PLOT x,y-20:DRAW x+20,y-20 >ZL
2505 PLOT x+20,y-30:DRAW x+20,y+10: >KD
DRAW x+60,y+10:DRAW x+60,y-30
2506 DRAW x+20,y-30:PLOT x+60,y-10: >TP
DRAW x+80,y-10
2507 IF symb=9 THEN TAG:MOVE x+30,y >AA
-3:PRINT "&";:TAGOFF
2508 IF symb=10 THEN TAG:MOVE x+25, >PW
y-3:PRINT CHR$(126);"1";:TAGOFF
2550 x=x-8:y=y+5:PRINT CHR$(23);CHR
$(1);:CH1$=CHR$(24):CH2$="":CH3$="

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:CH4$="":CH5$="":GOSUB 2330:GOTO 60
2600 USCREENCOPY,1,3:PRINT CHR$(23) >FK
;CHR$(0);:TAG:MOVE x+67,y-8:PRINT C
HR$(111);:TAGOFF:USCREENCOPY,3,1:sy
mb=9:GOTO 2501
2610 USCREENCOPY,1,3:PRINT CHR$(23) >HR
;CHR$(0);:TAG:MOVE x+67,y-8:PRINT C
HR$(111);:TAGOFF:USCREENCOPY,3,1:sy
mb=10:GOTO 2501
2650 '***** relais ***** >YF
2652 TAG:MOVE x,y:PRINT CHR$(125);: >KV
TAGOFF:PRINT CHR$(23);CHR$(0);:x=x+
8:y=y-5:USCREENCOPY,1,3
2653 USCREENCOPY,3,1:CLS #1:PRINT#1 >ZY
,"Direction ?"
2654 IF INKEY(0)=0 THEN USCREENCOPY >UH
,1,3:GOTO 2660
2656 IF INKEY(2)=0 THEN y=y-80:USCR >CY
EENCOPY,1,3:GOTO 2660
2657 GOTO 2654 >PE
2660 PLOT x,y:DRAW x,y+20:DRAW x-20 >JV
,y+20:DRAW x-20,y+40:DRAW x+20,y+40
:DRAW x+20,y+20:DRAW x,y+20
2664 PLOT x,y+40:DRAW x,y+60 >WV
2675 x=x-8:y=y+5:PRINT CHR$(23);CHR
$(1);:CH1$=CHR$(24):CH2$="":CH3$="
:CH4$="":CH5$="":GOSUB 2330:GOTO 60
3000 WINDOW #2,1,40,1,1:PAPER #2,1: >JK
PEN #2,0
3010 WINDOW #1,18,35,3,4:PAPER #1,1 >KQ
:PEN #1,0
3020 RETURN >EJ
3050 '***** transformateur ***** >YA
3053 TAG:MOVE x,y:PRINT CHR$(125);: >KQ
TAGOFF:PRINT CHR$(23);CHR$(0);:x=x+
8:y=y-5:USCREENCOPY,1,3
3056 PLOT x,y:DRAW x,y-30:PLOT x,y- >UV
60:DRAW x,y-90
3059 PLOT x+20,y:DRAW x+20,y-30:PLO >GL
T x+20,y-60:DRAW x+20,y-90
3062 DEG >YC
3065 FOR f=0 TO 360 STEP 4 >RU
3068 PLOT x+15*COS(f),(y-45)+15*SIN >FZ
(f)
3071 PLOT (x+20)+15*COS(f),(y-45)+1 >KX
5*SIN(f)
3074 NEXT >LF
3077 x=x-8:y=y+5:PRINT CHR$(23);CHR >XK
$(1);:CH1$=CHR$(24):CH2$="":CH3$="
:CH4$="":CH5$="":GOSUB 2330:GOTO 60
4000 '***** bornes avec numero ou l >XG
etre *****

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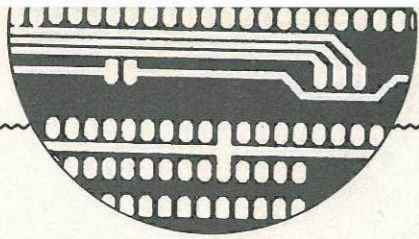
4003 TAG:MOVE x,y:PRINT CHR$(125);: >GH
TAGOFF:USCREENCOPY,1,3
4004 PRINT CHR$(23);CHR$(3); >WL
4007 CLS #1:PRINT #1,"No suivant (N >HC
)"
4008 PRINT #1,"Autre (A)" >UF
4009 IF INKEY(67)=0 THEN CLS #1:CAL >GD
L &BBO3:INPUT #1,"Num/letr :?",ca$:
GOTO 4015
4010 IF INKEY(46)=0 THEN USCREENCO >HM
P Y,1,3:TAG:MOVE x,y+3:PRINT CHR$(111
);:MOVE x-14,y+17:PRINT bo;:TAGOFF:
bo=bo+1:GOTO 4020
4011 GOTO 4009 >MG
4015 USCREENCOPY,1,3:TAG:MOVE x,y+3 >QF
:PRINT CHR$(111);:MOVE x-14,y+17:PR
INT " ";ca$;:TAGOFF:GOTO 4020
4020 PRINT CHR$(23);CHR$(1);:CH1$=C >AF
HR$(24):CH2$="":CH3$="":CH4$="":CH5
$="":GOSUB 2330:GOTO 60
4021 '***** bornes sans numero *** >XK
*
4022 TAG:MOVE x,y:PRINT CHR$(125);: >GJ
TAGOFF:USCREENCOPY,1,3
4023 PRINT CHR$(23);CHR$(3);:USCREE >BT
NCOPY,1,3:TAG:MOVE x,y+3:PRINT CHR$
(111);:TAGOFF
4024 PRINT CHR$(23);CHR$(1);:CH1$=C >AK
HR$(24):CH2$="":CH3$="":CH4$="":CH5
$="":GOSUB 2330:GOTO 60
4030 '***** LAMPES ***** >XK
4031 CALL &BD19 >UH
4033 TAG:MOVE x,y:PRINT CHR$(125);: >KP
TAGOFF:PRINT CHR$(23);CHR$(0);:x=x+
8:y=y-5:USCREENCOPY,1,3
4036 CLS#1:PRINT #1,"Direction :?" >FY
4039 IF INKEY(0)=0 THEN USCREENCOPY >GA
,1,3:GOSUB 4050:GOTO 4049
4042 IF INKEY(2)=0 THEN USCREENCOPY >BJ
,1,3:y=y-70:GOSUB 4050:y=y+70:GOTO
4049
4045 IF INKEY(1)=0 THEN USCREENCOPY >GZ
,1,3:GOSUB 4060:GOTO 4049
4047 IF INKEY(8)=0 THEN USCREENCOPY >BT
,1,3:x=x-70:GOSUB 4060:x=x+70:GOTO
4049
4048 GOTO 4039 >NK
4049 x=x-8:y=y+5:PRINT CHR$(23);CHR >XK
$(1);:CH1$=CHR$(24):CH2$="":CH3$="
:CH4$="":CH5$="":GOSUB 2330:GOTO 60
4050 PLOT x,y:DRAW x,y+20:PLOT x,y+ >UD
50:DRAW x,y+70

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4051 DEG >YB
4052 FOR f=0 TO 360 STEP 4 >RQ
4053 PLOT x+15*COS(f),(y+35)+15*SIN >FQ
(f)
4054 NEXT f >VF
4055 PLOT x-9,y+24:DRAW x+9,y+46:PL >FF
OT x+9,y+24:DRAW x-7,y+46
4056 RETURN >FJ
4060 PLOT x,y:DRAW x+20,y::PLOT x+5 >VL
0,y:DRAW x+70,y
4061 DEG >YC
4062 FOR f=0 TO 360 STEP 4 >RR
4063 PLOT (x+35)+15*COS(f),y+15*SIN >FR
(f)
4064 NEXT f >VG
4065 PLOT x+24,y-9:DRAW x+46,y+9:PL >FG
OT x+24,y+9:DRAW x+46,y-7
4066 RETURN >FK
5000 '***** fleches de tension **** >XH
*
5001 TAG:MOVE x,y:PRINT CHR$(125);: >KK
TAGOFF:PRINT CHR$(23);CHR$(0);:x=x+
8:y=y-5:USCREENCOPY,1,3
5002 CLS #1:PRINT #1,"Direction ?" >EB
5003 IF INKEY(2)=0 THEN USCREENCOPY >EU
,1,3:PLOT x,y:DRAW x-4,y+5:PLOT x,y
:DRAW x+4,y+5:GOTO 5010
5004 IF INKEY(0)=0 THEN USCREENCOPY >EX
,1,3:PLOT x,y:DRAW x-4,y-5:PLOT x,y
:DRAW x+4,y-5:GOTO 5010
5005 IF INKEY(8)=0 THEN USCREENCOPY >EC
,1,3:PLOT x,y:DRAW x+5,y-4:PLOT x,y
:DRAW x+5,y+4:GOTO 5010
5006 IF INKEY(1)=0 THEN USCREENCOPY >EA
,1,3:PLOT x,y:DRAW x-5,y-4:PLOT x,y
:DRAW x-5,y+4:GOTO 5010
5007 GOTO 5003 >MH
5010 x=x-8:y=y+5:PRINT CHR$(23);CHR >LY
$(1);:CH1$=CHR$(24):CH2$="":CH3$="
:CH4$="":CH5$="":GOSUB 2330:GOTO 60
5100 '***** bobine ***** >XJ
5110 TAG:MOVE x,y:PRINT CHR$(125);: >HK
TAGOFF:PRINT CHR$(23);CHR$(0);:x=x+
8:y=y-5
5115 y1=1:x1=x >EJ
5120 PRINT #1,"Direction?" >YI
5123 IF INKEY(0)=0 THEN bob=3:GOTO >FK
5130
5124 IF INKEY(2)=0 THEN bob=2:GOTO >FM
5130
5125 IF INKEY(8)=0 THEN bob=1:GOTO >FU
5130

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5126 IF INKEY(1)=0 THEN bob=0:GOTO >FL
5130
5127 GOTO 5123 >ND
5128 PRINT #1,"Sens?" >QW
5130 IF bob=1 AND INKEY(2)=0 THEN y >QT
=y-8:GOTO 5200
5131 IF bob=1 AND INKEY(0)=0 THEN y >ZC
=y+8:y=y+48:GOTO 5200
5132 IF bob=0 AND INKEY(2)=0 THEN y >QV
=y-8:GOTO 5210
5133 IF bob=0 AND INKEY(0)=0 THEN y >ZE
=y+8:y=y+48:GOTO 5210
5134 IF bob=2 AND INKEY(8)=0 THEN x >QF
=x-8:GOTO 5230
5135 IF bob=2 AND INKEY(1)=0 THEN x >ZH
=x+8:x=x+48:GOTO 5230
5136 IF bob=3 AND INKEY(8)=0 THEN x >RD
=x-8:GOTO 5220
5137 IF bob=3 AND INKEY(1)=0 THEN x >AB
=x+48:x=x+8:GOTO 5220
5199 GOTO 5130 >PA
5200 ùSCREENCOPY,1,3:DEG:FOR f=90 T >YU
0 270 STEP 5:PLOT x+8*cos(f),y+8*sin
N(f):PLOT x+8*cos(f),(y-16)+8*sin(f)
):PLOT x+8*cos(f),(y-32)+8*sin(f):P
LOT x+8*cos(f),(y-48)+8*sin(f):NEXT
:GOTO 5900
5210 ùSCREENCOPY,1,3:DEG:FOR f=270 >AX
TO 450 STEP 5:PLOT x+8*cos(f),y+8*sin
IN(f):PLOT x+8*cos(f),(y-16)+8*sin(f)
):PLOT x+8*cos(f),(y-32)+8*sin(f):
PLOT x+8*cos(f),(y-48)+8*sin(f):NEX
T:GOTO 5900
5220 ùSCREENCOPY,1,3:DEG:FOR f=0 TO >VU
180 STEP 5:PLOT x+8*cos(f),y+8*sin
(f):PLOT (x-16)+8*cos(f),y+8*sin(f)
):PLOT (x-32)+8*cos(f),y+8*sin(f):P
LOT (x-48)+8*cos(f),y+8*sin(f):NEXT
:GOTO 5900
5230 ùSCREENCOPY,1,3:DEG:FOR f=180 >AZ
TO 360 STEP 5:PLOT x+8*cos(f),y+8*sin
IN(f):PLOT (x-16)+8*cos(f),y+8*sin(f)
):PLOT (x-32)+8*cos(f),y+8*sin(f):
PLOT (x-48)+8*cos(f),y+8*sin(f):NEX
T:GOTO 5900
5900 IF bob=1 AND y<>x+48 THEN y=y >QZ
-48:GOTO 5999
5910 IF bob=0 AND y<>x+48 THEN y=y >QZ
-48:GOTO 5999
5920 IF bob=2 AND INKEY(8)=0 THEN x >TY
=x+48:GOTO 5999
5930 IF bob=3 AND INKEY(8)=0 THEN x >TA

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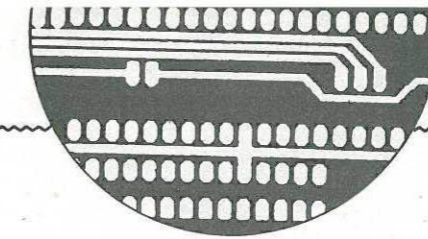
=x+48:GOTO 5999
5999 PRINT CHR$(23);CHR$(1);:x=x-8: >KZ
y=y+5:CHR$(24);ch3$="":GOSUB 2
330:GOTO 60
6000 GOTO 5130 >MC
9131 IF symb=23 THEN 5100 >TC
9997 '***** >AG
*****
9998 '*** sous programme impressio >AH
n ***
9999 '***** >AJ
*****
10000 ùSCREENCOPY,4,1:PAPER #2,0:PE >RV
N #2,0:CLS #2
10001 PRINT CHR$(23);CHR$(0); >VH
10010 PLOT 1,1:DRAW 639,1:DRAW 639, >HX
399:DRAW 1,399:DRAW 1,1:PLOT 1,375:
DRAW 639,375
10011 PLOT 380,375:DRAW 380,400:PLO >ZC
T 524,375:DRAW 524,400
10020 ùSCREENCOPY,3,1 >RX
10030 WINDOW #5,10,30,11,14:PAPER # >LL
5,1:PEN #5,0:CLS #5:CALL &BBO3: IMP
UT #5,"Nom du dessin ?",nom$
10040 ùSCREENCOPY,1,3:TAG:MOVE 5,39 >CR
5:PRINT nom$;:TAGOFF:ùSCREENCOPY,3,
1
10050 CLS #5:INPUT #5,"DATE JJ?",JJ >DG
$
10051 INPUT #5," MM?",MM$ >VG
10052 INPUT #5," AA?",AA$ >VF
10053 date$=jj$+"/"+mm$+"/"+aa$ >XV
10054 INPUT #5,"No FOLIO ?",folio$ >CJ
10058 ùSCREENCOPY,1,3:TAG:MOVE 527, >YK
395:PRINT "Folio "+folio$;:TAGOFF:ù
SCREENCOPY,3,1
10059 ùSCREENCOPY,1,3:TAG:MOVE 385, >GB
395:PRINT date$;:TAGOFF:ùSCREENCOPY
,3,1
10060 ùSCREENCOPY,1,3 >RB
10061 CLS #5:PRINT #5,"VIDAGE :(P)/ >BD
(G)":CALL &BBO6:IF INKEY(27)=0 THEN
ùSCREENCOPY,1,3:ùSCREENCOPY,3,1:ùH
COPY1:ùSCREENCOPY,1,4:ùSCREENCOPY,3
,1:PRINT CHR$(23);CHR$(2);:GOTO 60
10082 ùSCREENCOPY,1,3 >RF
10083 ùSCREENCOPY,3,1:ùHCOPY2:ùSRE >LA
ENCOPY,1,4:ùSCREENCOPY,3,1:PRINT CH
R$(23);CHR$(2);:GOTO 60
21000 '***** >CJ
21010 ' H E L P # >CK
21020 '***** >DA

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21030 MODE 2:LOCATE 30,13:PRINT "(V >JM
)ideo / (I)mprimante ?"
21040 IF INKEY(55)=0 THEN i=0:GOTO >GD
21065
21050 IF INKEY(35)=0 THEN PRINT #8, >ZD
CHR$(27)+"x"+CHR$(1):c=8:i=0:GOSUB
21065
21060 GOTO 21040 >AJ
21065 CLS >FK
21070 PRINT #i," >UY
H E L P : "
21075 PRINT #i:PRINT #i:PRINT #i >AZ
21080 PRINT #i:PRINT #i," >WV
F1 : Fonction deplacement"
21090 PRINT #i:PRINT #i," >KA
F2 : Fonction trace"
21100 PRINT #i:PRINT #i," >PQ
F3 : Fonction choix de symbo
l (1 à 23)"
21110 PRINT #i:PRINT #i," >MG
F4 : Fonction efface "
21120 PRINT #i:PRINT #i," >ZE
F5 : Fonction insert texte "
21130 PRINT #i:PRINT #i," >VX
F6 : Menu principal : - Nouv
eau dessin "
21140 PRINT #i," >VB
- Dessin en cou
rs "
21150 PRINT #i," >PQ
- Lecture
"
21160 PRINT #i," >RD
- Sauvegarde
"
21170 PRINT #i," >TH
- Impression
"
21180 PRINT #i," >MF
- Help
"
21190 IF c=8 THEN i=c:c=0:GOTO 2107 >CF
0
22000 CALL &BBO3:CALL &BBO6:MODE 1: >PM
ùSCREENCOPY,1,3:TAG:MOVE x,y:PRINT
CHR$(125);:TAGOFF:ch1$=CHR$(24):ch5
$="":GOSUB 2330:GOSUB 3000:GOTO 60
25000 IF DERR=146 THEN ùSCREENCOPY, >TG
1,2:GOTO 1410
25002 IF DERR<>146 THEN 1410 >VW
25010 CONT >QF

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20000 REM I M P R I M A N T E
20010 MEMORY &7FFF
20020 FOR i=&A000 TO &A480
20030 READ a$
20040 b$=" "+a$
20050 c=VAL(b$)
20060 POKE i,c
20070 NEXT
20080 DATA 00,00,00,00,00,00,00,00,
00,00,00,00,01,15,A0,21,08,A0,C3,D1
,BC,3E,A0,C3,89,A0,C3,EB,A1,C3,52,A
3,C3,67,A3,C3,7C,A3,C3,87,A3,C3,97,
A3,C3,A7,A3,C3,C5,A3,C3,D9,A3,C3,F7
,A3,C3,15,A4,C3,3D,A4,48,43,4F,50,5
9,B1,48,43,4F,50,59,B2:REM*****
***
20090 DATA 45,50,53,4F,CE,45,50,53,
4F,46,C6,49,4E,49,D4,43,4F,55,52,52
,49,45,D2,50,49,43,C1,45,4C,49,54,C
5,43,4F,4E,44,45,4E,53,C5,44,42,46,
52,41,D0,47,52,41,D3,45,4C,41,52,47
,C9,49,54,41,4C,49,C3,00,CD,8D,A0,C
9,3E,1E,32,07,A0,F5,C5:REM*****
***
20100 DATA D5,E5,DD,E5,FD,E5,CD,28,
BD,21,94,01,22,00,A0,11,00,00,ED,53
,02,A0,11,00,00,ED,53,02,A0,3E,1B,C
D,E0,A1,3E,40,CD,E0,A1,3E,1B,CD,E0,
A1,3E,31,CD,E0,A1,3E,1B,CD,E0,A1,3E

```

```

,2A,CD,E0,A1,3E,05,CD,E0,A1,3E,40,C
D,E0,A1,3E,01,CD,E0,A1:REM*****
***
20110 DATA ED,5B,02,A0,2A,00,A0,22,
04,A0,CD,FO,BB,FE,00,28,05,21,06,A0
,CB,FG,ED,5B,02,A0,2A,04,A0,2B,2B,2
2,04,A0,CD,FO,BB,FE,00,28,05,21,06,
A0,CB,EE,ED,5B,02,A0,2A,04,A0,2B,2B
,22,04,A0,CD,FO,BB,FE,00,28,05,21,0
6,A0,CB,E6,ED,5B,02,A0:REM*****
***
20120 DATA 2A,04,A0,2B,2B,22,04,A0,
CD,FO,BB,FE,00,28,05,21,06,A0,CB,DE
,ED,5B,02,A0,2A,04,A0,2B,2B,22,04,A
0,CD,FO,BB,FE,00,28,05,21,06,A0,CB,
D6,ED,5B,02,A0,2A,04,A0,2B,2B,22,04
,A0,CD,FO,BB,FE,00,28,05,21,06,A0,C
B,CE,ED,5B,02,A0,2A,04:REM*****
***
20130 DATA A0,2B,2B,CD,FO,BB,FE,00,
28,05,21,06,A0,CB,C6,3A,06,A0,CD,E0
,A1,3E,00,32,06,A0,ED,5B,02,A0,13,1
3,ED,53,02,A0,21,80,02,A7,ED,52,7C,
FE,00,C2,DE,A0,7D,FE,00,C2,DE,A0,3E
,0A,CD,E0,A1,2A,00,A0,11,0E,00,A7,E
D,52,22,00,A0,22,04,A0:REM*****
***
20140 DATA 3A,07,A0,3D,32,07,A0,FE,
00,C2,AA,A0,3E,0A,CD,E0,A1,3E,1B,CD
,E0,A1,3E,40,CD,E0,A1,FD,E1,DD,E1,E
1,D1,C1,F1,C9,CD,2E,BD,38,FB,CD,2B,
BD,30,FE,C9,CD,EF,A1,C9,3E,5C,32,07
,A0,F5,C5,D5,E5,DD,E5,FD,E5,CD,28,B
D,11,00,00,ED,53,00,A0:REM*****
***
20150 DATA 21,00,00,22,02,A0,21,00,
00,22,02,A0,3E,1B,CD,E0,A1,3E,40,CD
,E0,A1,3E,1B,CD,E0,A1,3E,31,CD,E0,A
1,3E,1B,CD,E0,A1,3E,2A,CD,E0,A1,3E,
05,CD,E0,A1,3E,00,CD,E0,A1,3E,02,CD
,E0,A1,2A,02,A0,ED,5B,00,A0,ED,53,0
4,A0,CD,FO,BB,FE,00,28:REM*****
***
20160 DATA 05,21,06,A0,CB,FG,2A,02,
A0,ED,5B,04,A0,13,ED,53,04,A0,CD,FO
,BB,FE,00,28,05,21,06,A0,CB,EE,2A,0
2,A0,ED,5B,04,A0,13,ED,53,04,A0,CD,
FO,BB,FE,00,28,05,21,06,A0,CB,E6,2A
,02,A0,ED,5B,04,A0,13,ED,53,04,A0,C
D,FO,BB,FE,00,28,05,21:REM*****
***
20170 DATA 06,A0,CB,DE,2A,02,A0,ED,

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```

5B,04,A0,13,ED,53,04,A0,CD,FO,BB,FE
,00,28,05,21,06,A0,CB,D6,2A,02,A0,E
D,5B,04,A0,13,ED,53,04,A0,CD,FO,BB,
FE,00,28,05,21,06,A0,CB,CE,2A,02,A0
,ED,5B,04,A0,13,CD,FO,BB,FE,00,28,0
5,21,06,A0,CB,C6,3A,06:REM*****
***
20180 DATA A0,CD,E0,A1,3E,00,32,06,
A0,2A,02,A0,23,22,02,A0,21,90,01,ED
,5B,02,A0,A7,ED,52,7C,FE,00,C2,3F,A
2,7D,FE,00,C2,3F,A2,0E,70,3E,00,CD,
E0,A1,0D,79,FE,00,20,F5,3E,0A,CD,E0
,A1,2A,00,A0,0E,07,23,0D,79,FE,00,2
0,F9,22,00,A0,22,04,A0:REM*****
***
20190 DATA 3A,07,A0,3D,32,07,A0,FE,
00,C2,0C,A2,3E,0A,CD,E0,A1,3E,1B,CD
,E0,A1,3E,40,CD,E0,A1,FD,E1,DD,E1,E
1,D1,C1,F1,C9,3E,CD,32,5A,BB,3E,2B,
32,5B,BB,3E,BD,32,5C,BB,3E,C9,32,5D
,BB,C9,3E,CF,32,5A,BB,3E,FA,32,5B,B
B,3E,93,32,5C,BB,3E,CF:REM*****
***
20200 DATA 32,5D,BB,C9,3E,1B,CD,E0,
A1,3E,40,CD,E0,A1,C9,3E,1B,CD,E0,A1
,3E,78,CD,E0,A1,3E,01,CD,E0,A1,C9,3
E,1B,CD,E0,A1,3E,78,CD,E0,A1,3E,00,
CD,E0,A1,C9,DD,6E,00,7D,FE,00,20,0B
,3E,1B,CD,E0,A1,3E,50,CD,E0,A1,C9,3
E,1B,CD,E0,A1,3E,4D,CD:REM*****
***
20210 DATA E0,A1,C9,DD,6E,00,7D,FE,
00,20,06,3E,12,CD,E0,A1,C9,3E,0F,CD
,E0,A1,C9,DD,6E,00,7D,FE,00,20,0B,3
E,1B,CD,E0,A1,3E,48,CD,E0,A1,C9,3E,
1B,CD,E0,A1,3E,47,CD,E0,A1,C9,DD,6E
,00,7D,FE,00,20,0B,3E,1B,CD,E0,A1,3
E,46,CD,E0,A1,C9,3E,1B:REM*****
***
20220 DATA CD,E0,A1,3E,45,CD,E0,A1,
C9,DD,6E,00,7D,FE,00,20,10,3E,1B,CD
,E0,A1,3E,57,CD,E0,A1,3E,30,CD,E0,A
1,C9,3E,1B,CD,E0,A1,3E,57,CD,E0,A1,
3E,31,CD,E0,A1,C9,DD,6E,00,7D,FE,00
,20,0B,3E,1B,CD,E0,A1,3E,35,CD,E0,A
1,C9,3E,1B,CD,E0,A1,3E:REM*****
***
20230 DATA 34,CD,E0,A1,C9,00,00,00,
00,00,00,00,00,00,00,00,00,00,00,0
0,00,00,00,00,00,00,00,00,00,00,00
0,00,00,00,00,00,00,00,00,00,00:
REM*****

```